

● FIG. 1a

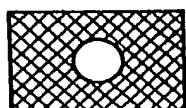


FIG. 1b



FIG. 1c

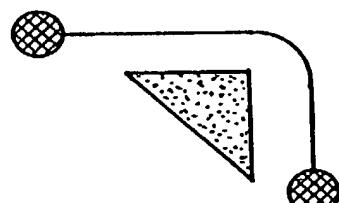


FIG. 1d



FIG. 1e



FIG. 1f

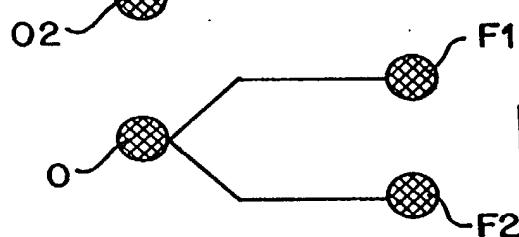


FIG. 1g

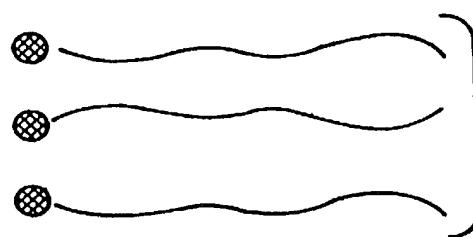


FIG. 1h

FIG. 2A

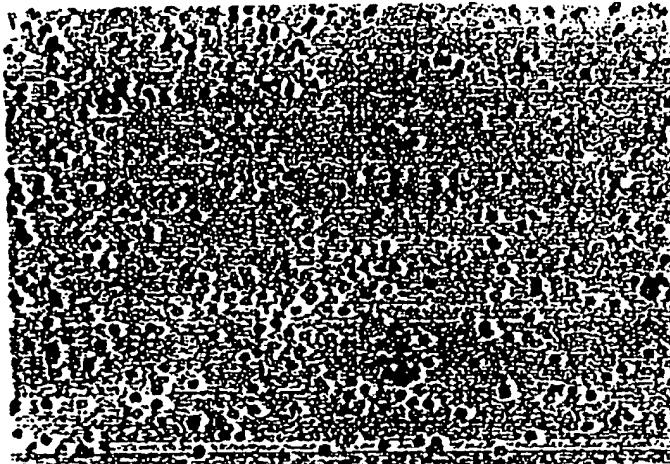
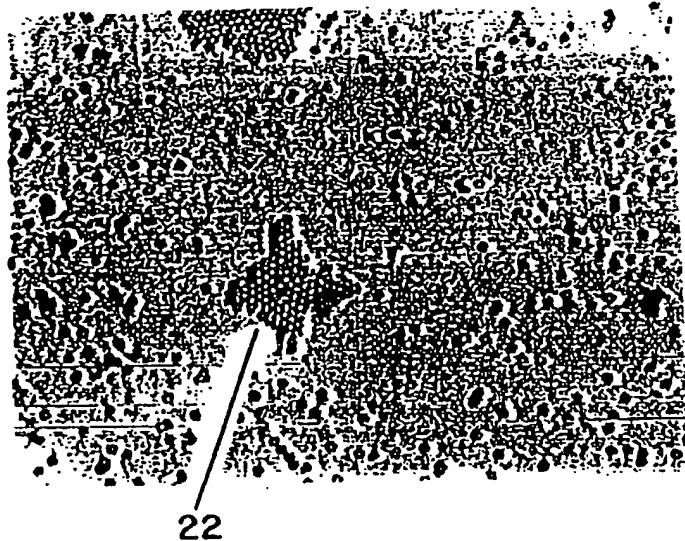


FIG. 2B



22

FIG. 2C

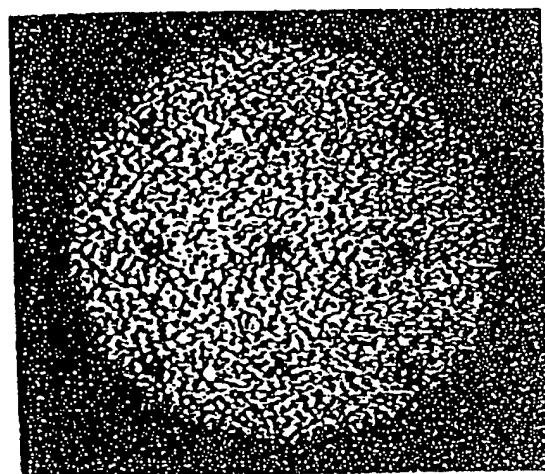
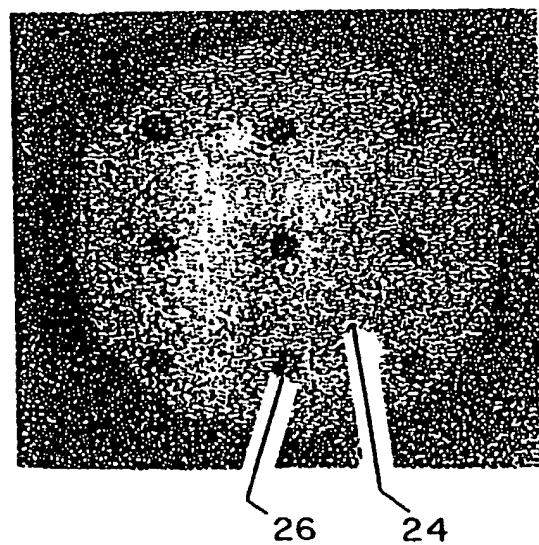


FIG. 2D



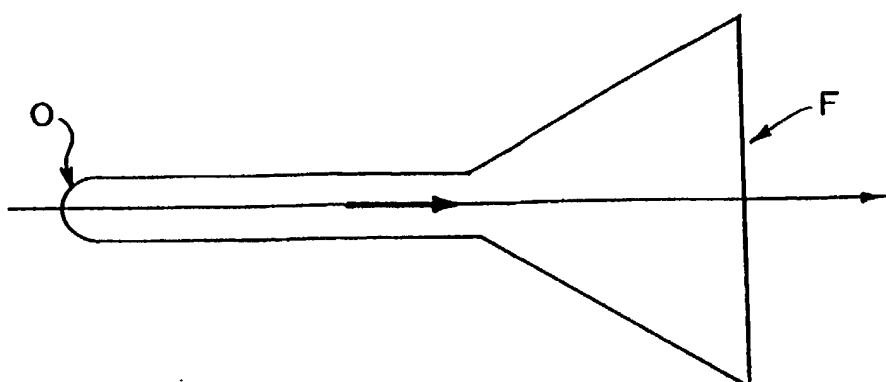


FIG. 3b

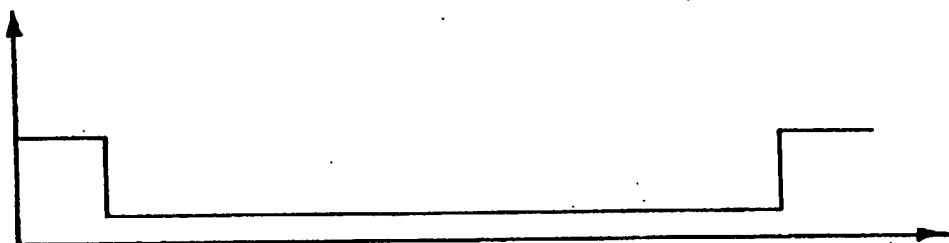


FIG. 3c

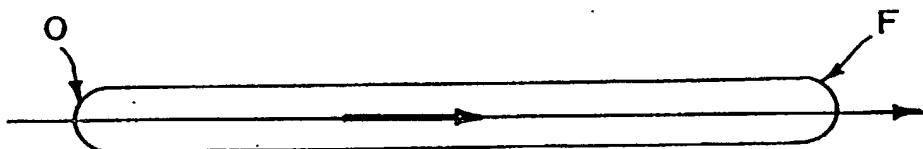


FIG. 3d



FIG. 3C

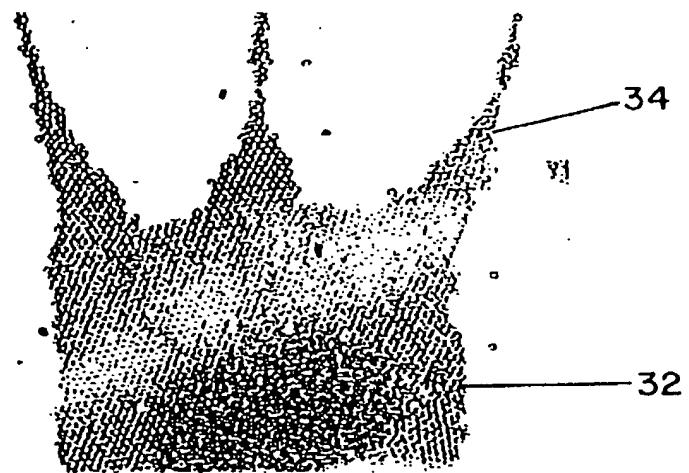


FIG. 3D

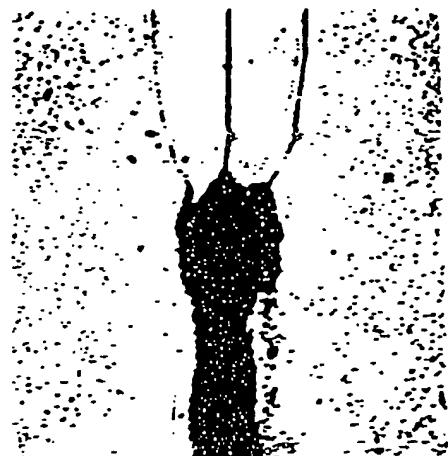


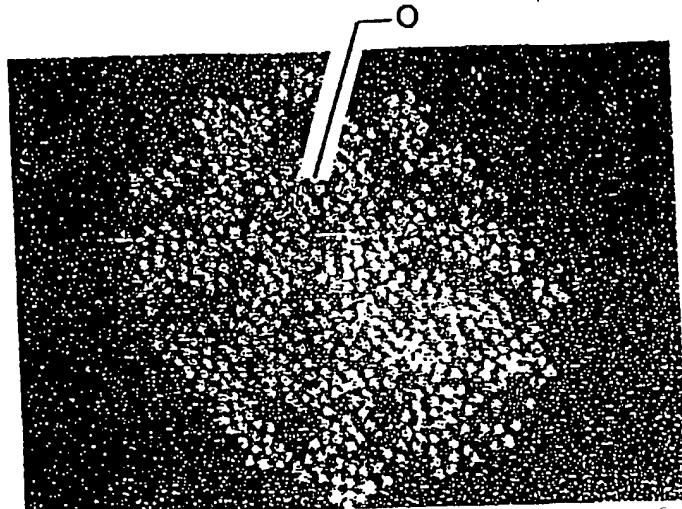
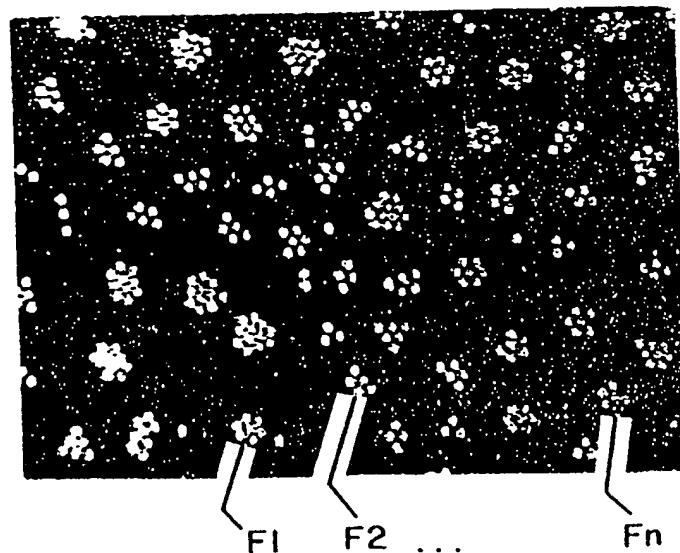
FIG. 4A**FIG. 4B**

FIG. 5

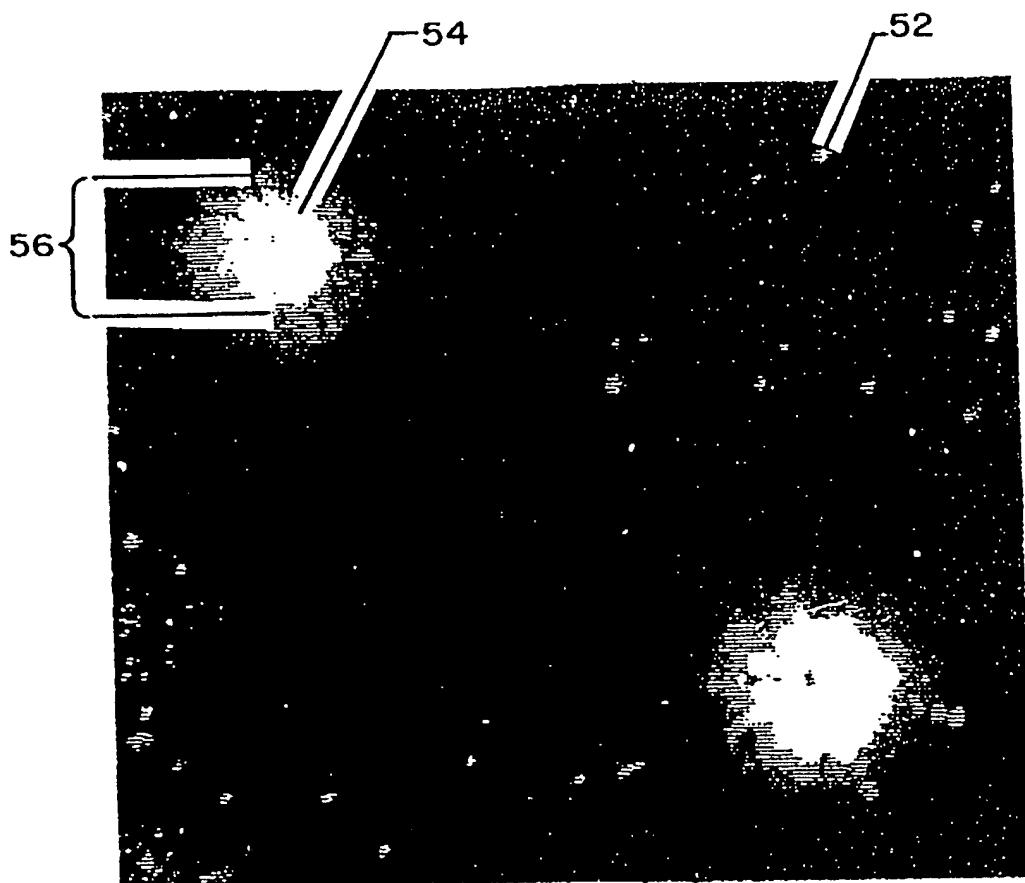


FIG. 7

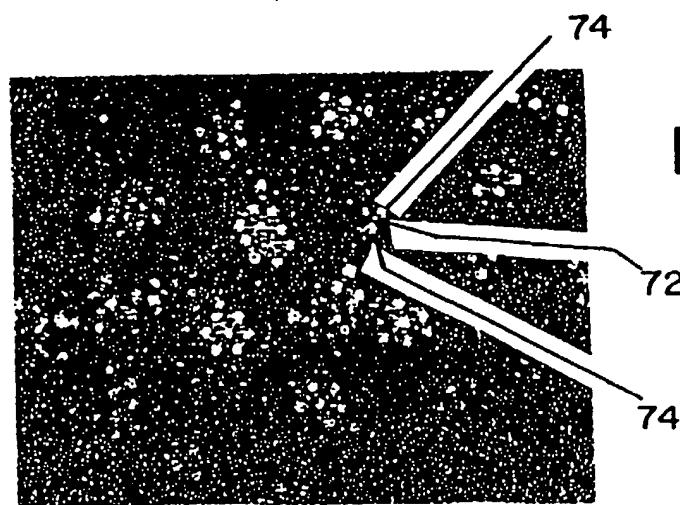
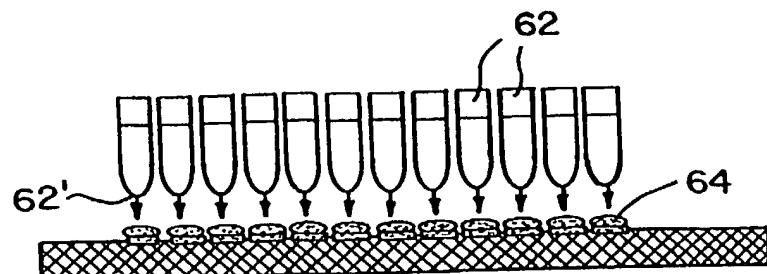
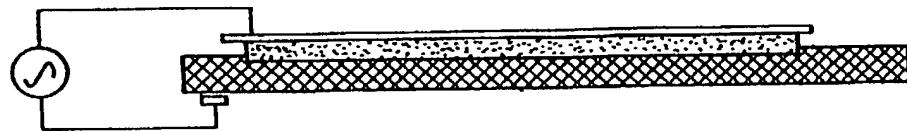
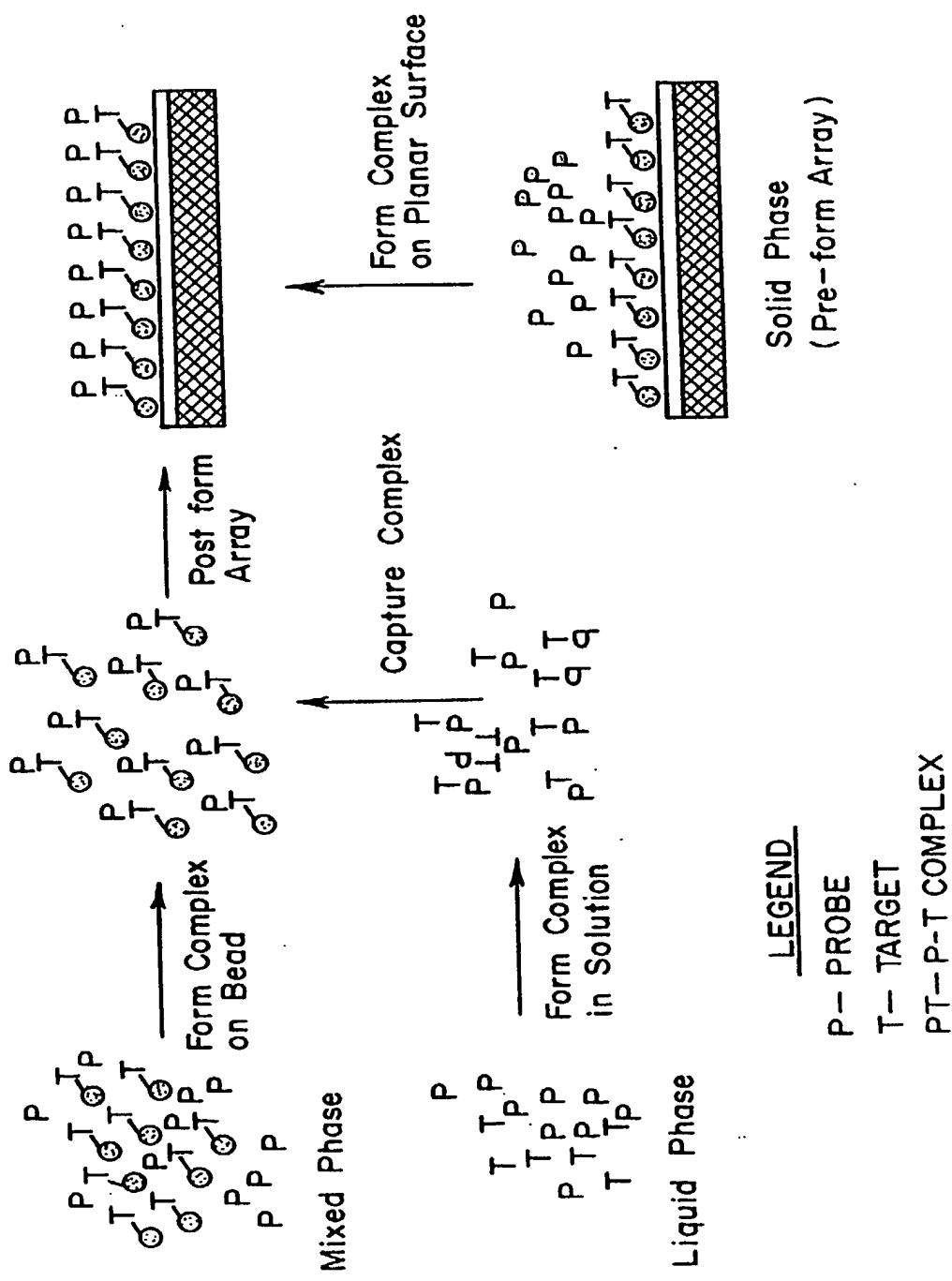


FIG. 6a**FIG. 6b****FIG. 6c**

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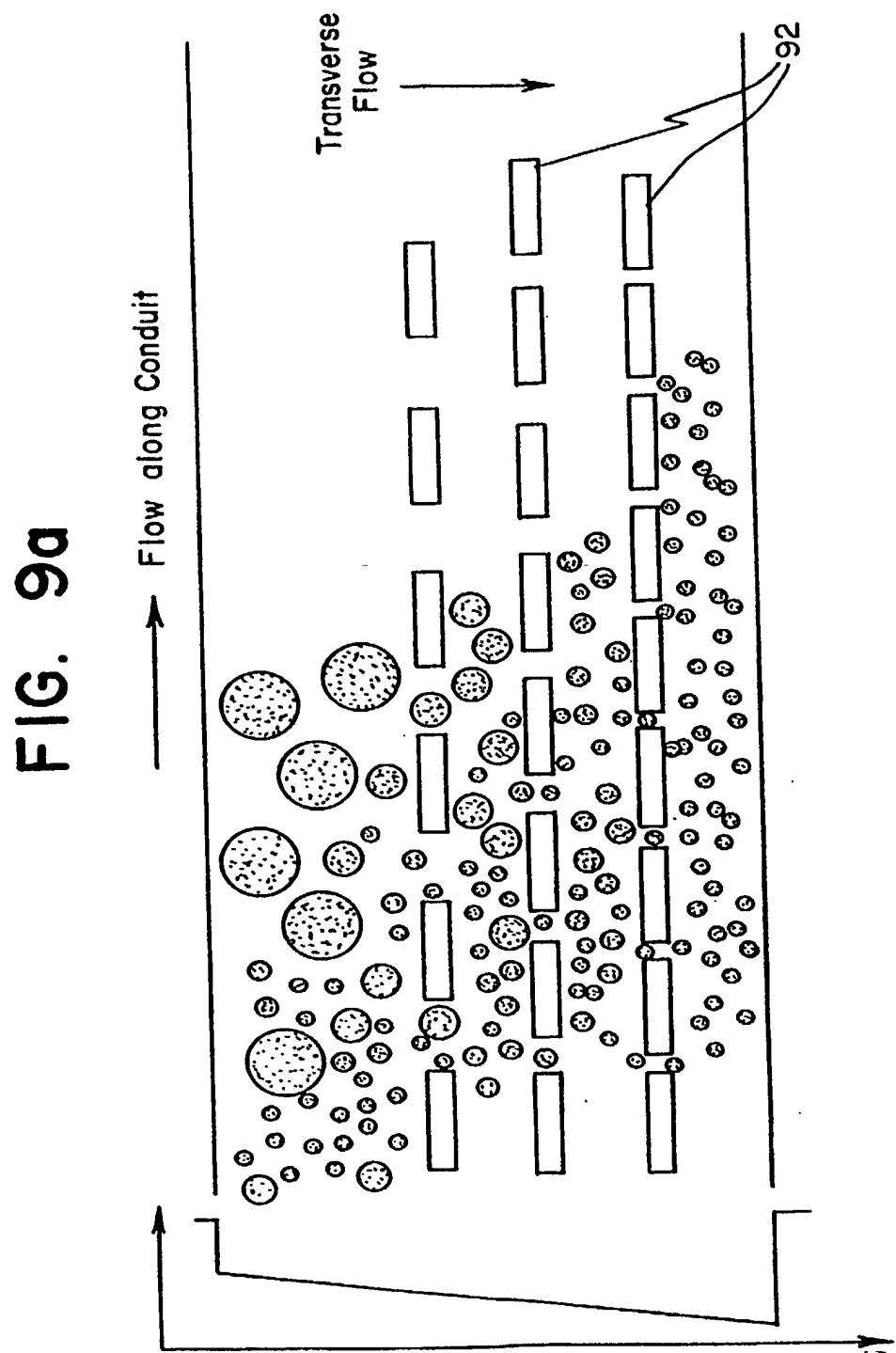
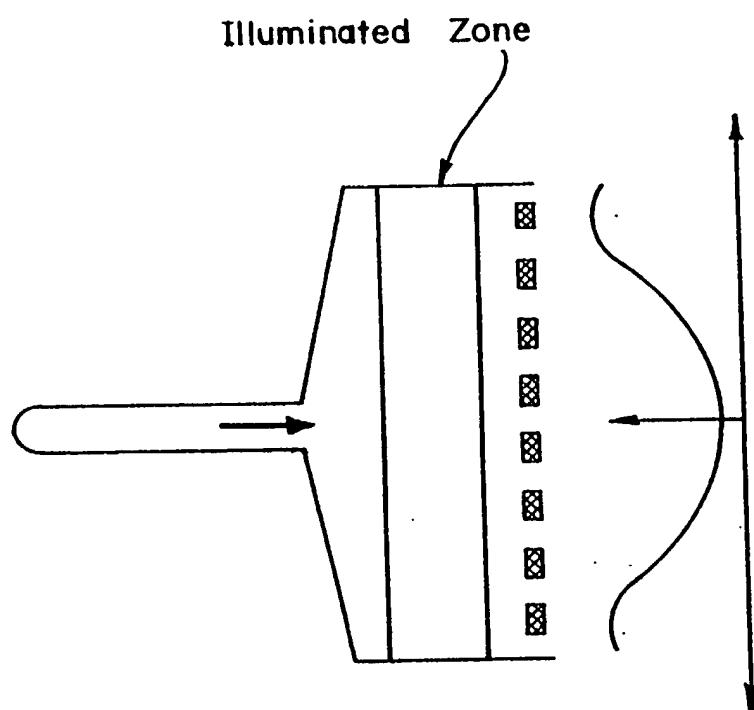


FIG. 9b**FIG. 9c**

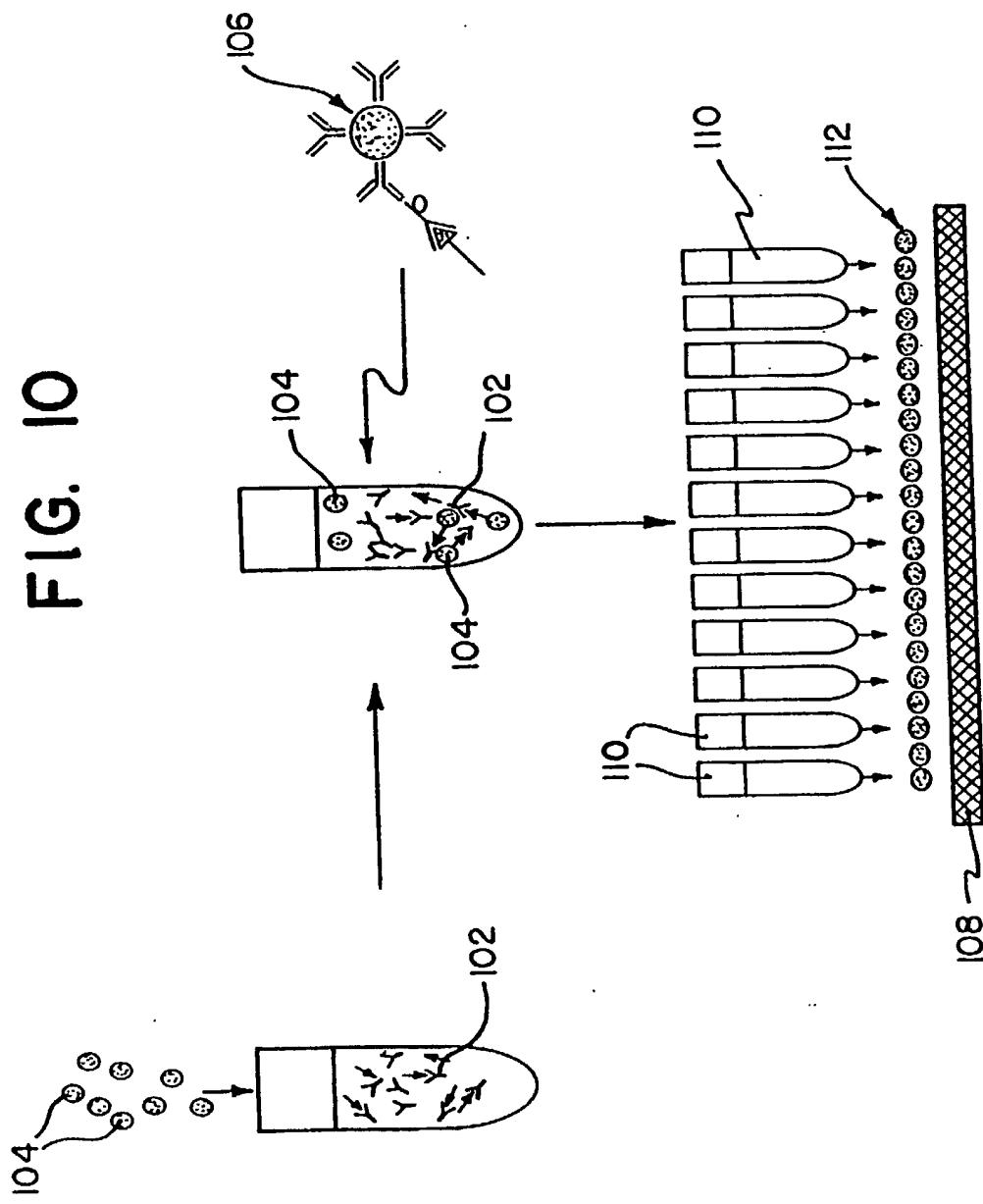
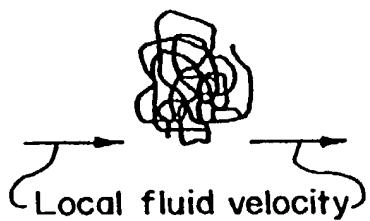
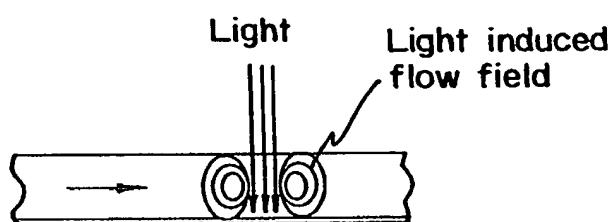
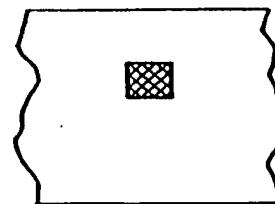
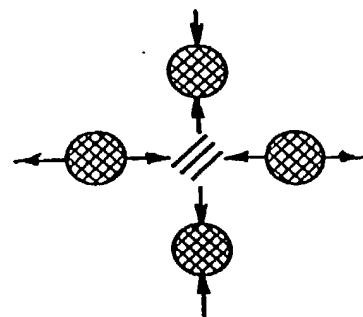


FIG. IIa**FIG. IIb****FIG. IIc****FIG. IId****FIG. IIe**

ILLUMINATION PATTERN GENERATOR

WO 01/20593

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PCT/US00/25466

14/36

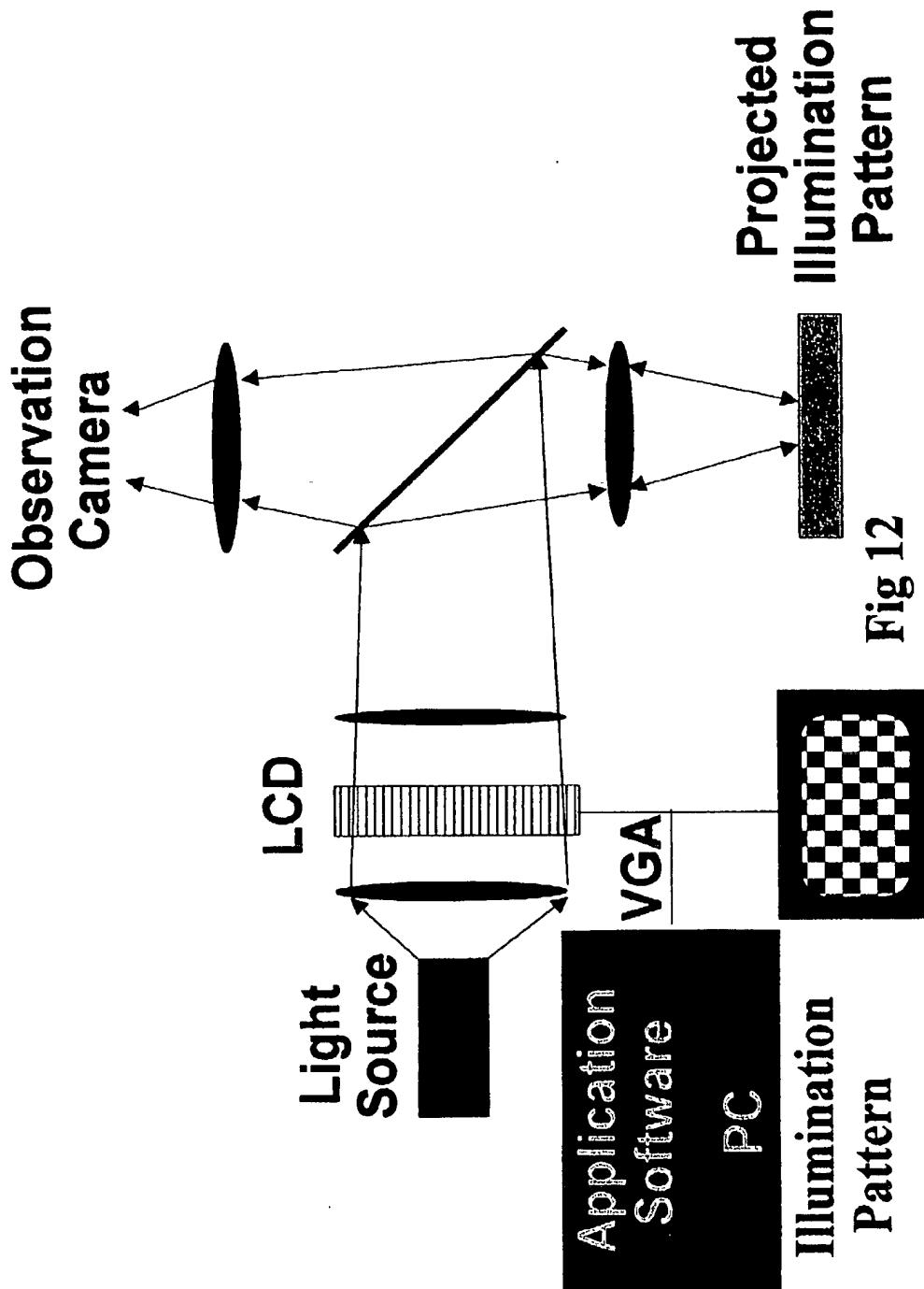


Fig 12

LCD-PARSE OPTICAL DESIGN

WO 01/20593

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15/36

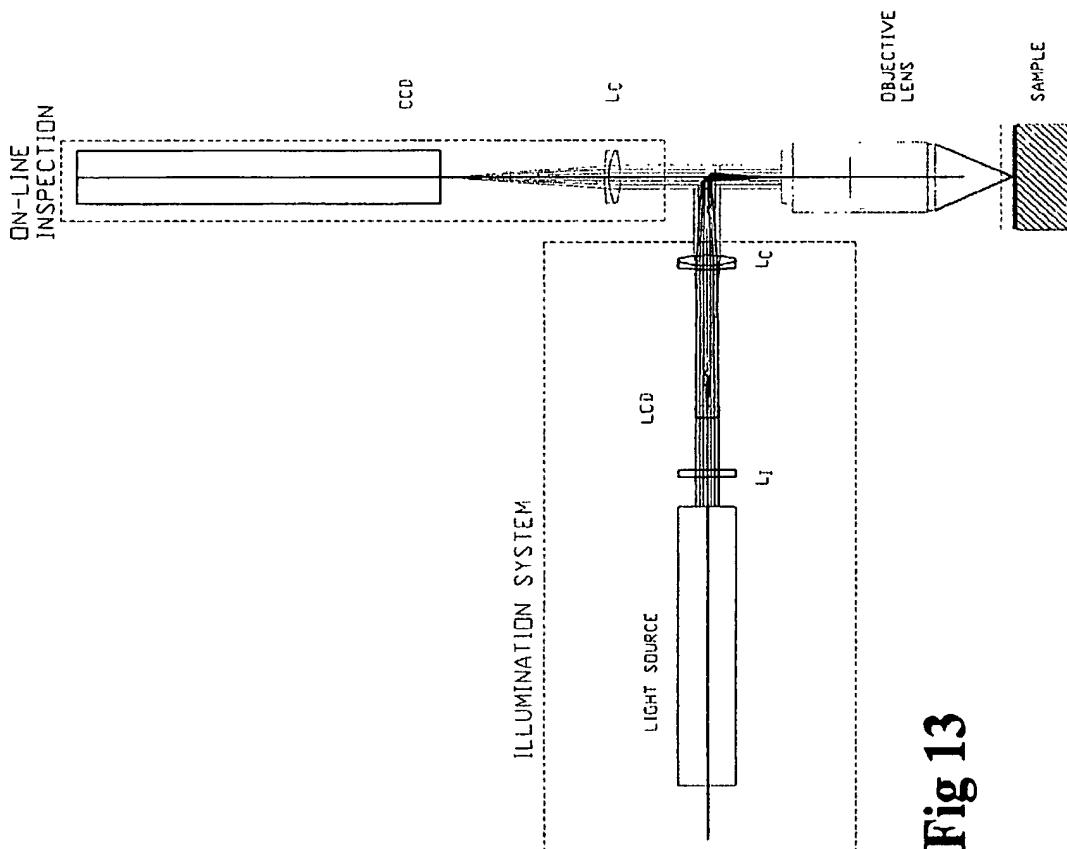


Fig 13

ARRAY SHAPE ADJUSTMENTS

WO 01/20593

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PCT/US00/25466

16/36

CIRCLE



Figure 14a

HORIZONTAL. LINE

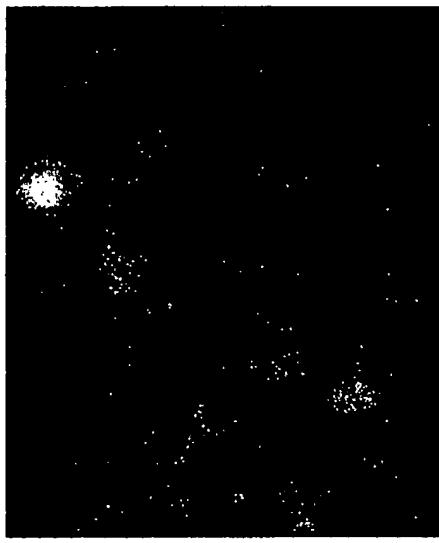


Figure 14c

VERTICAL LINE



Figure 14b

SQUARE

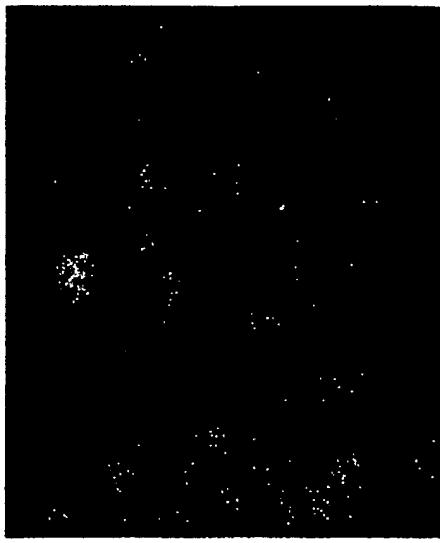


Figure 14d

COLLECTION AND ARRAY ASSEMBLY

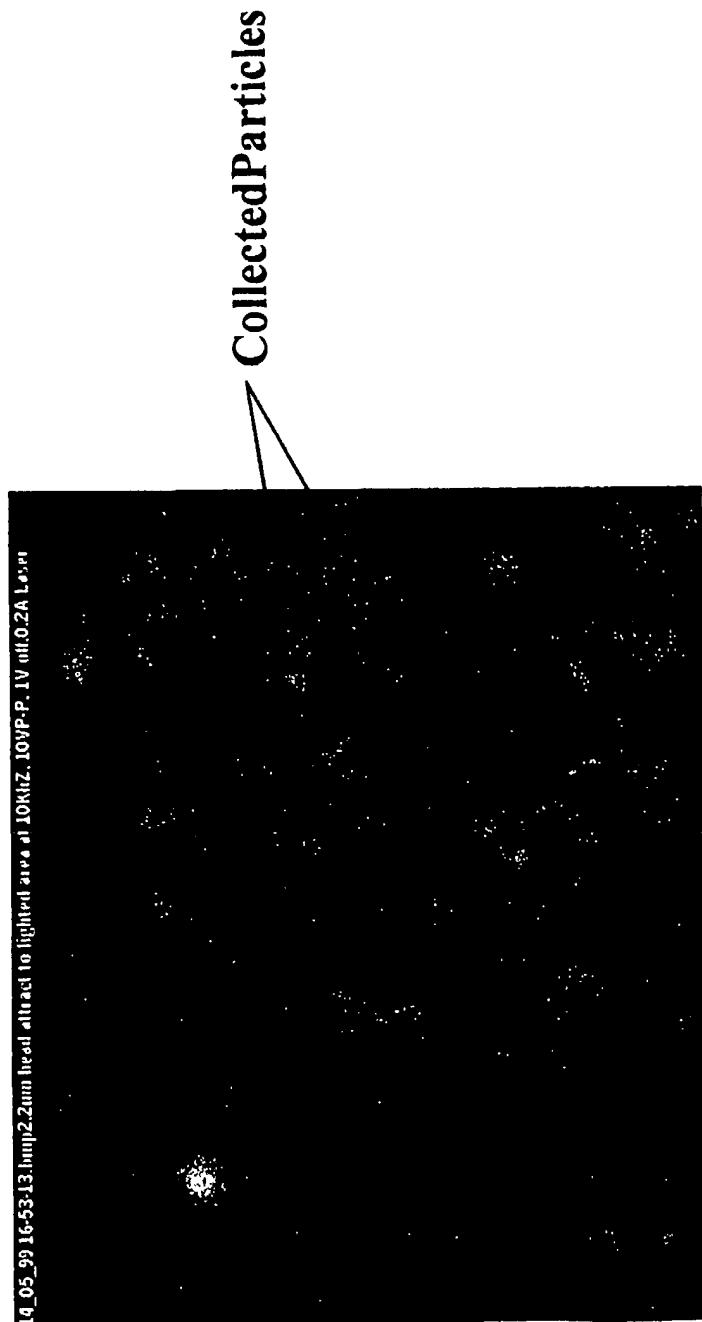


Figure 15a

EXPULSION AND CONFINEMENT

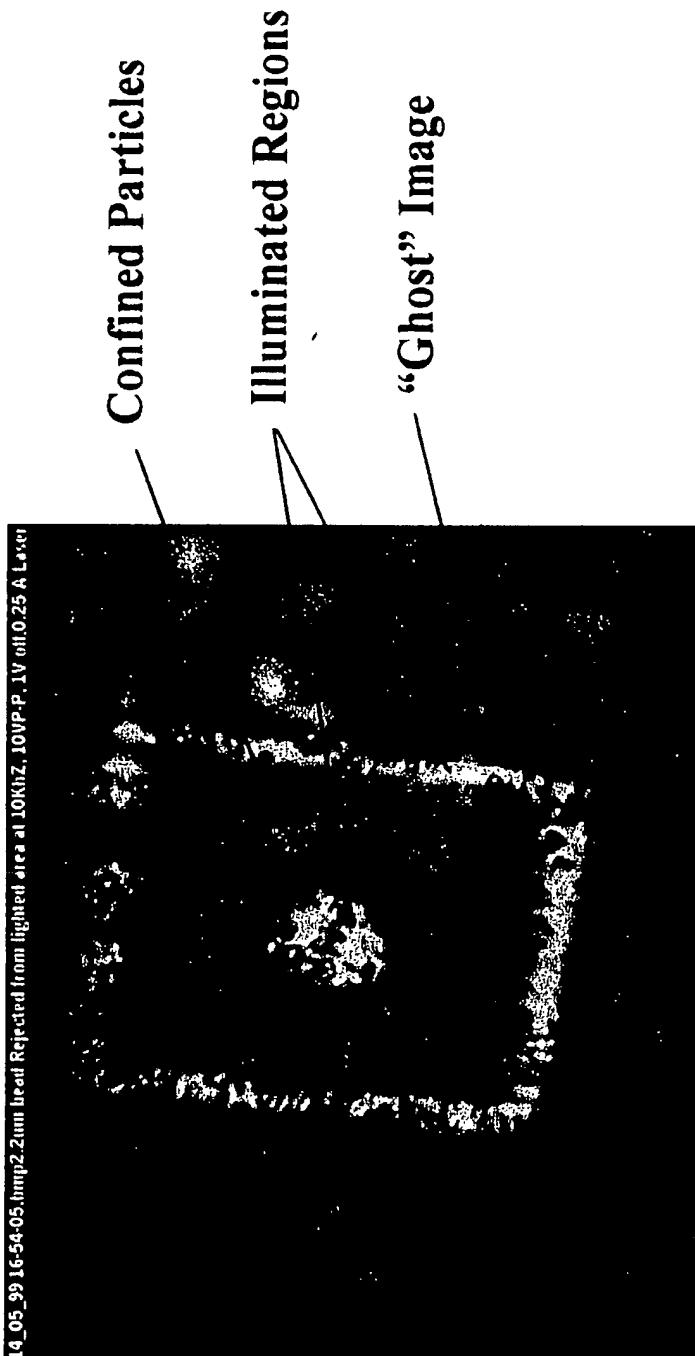


Figure 15b

DRAG AND DROP

WO 01/20593

19/36

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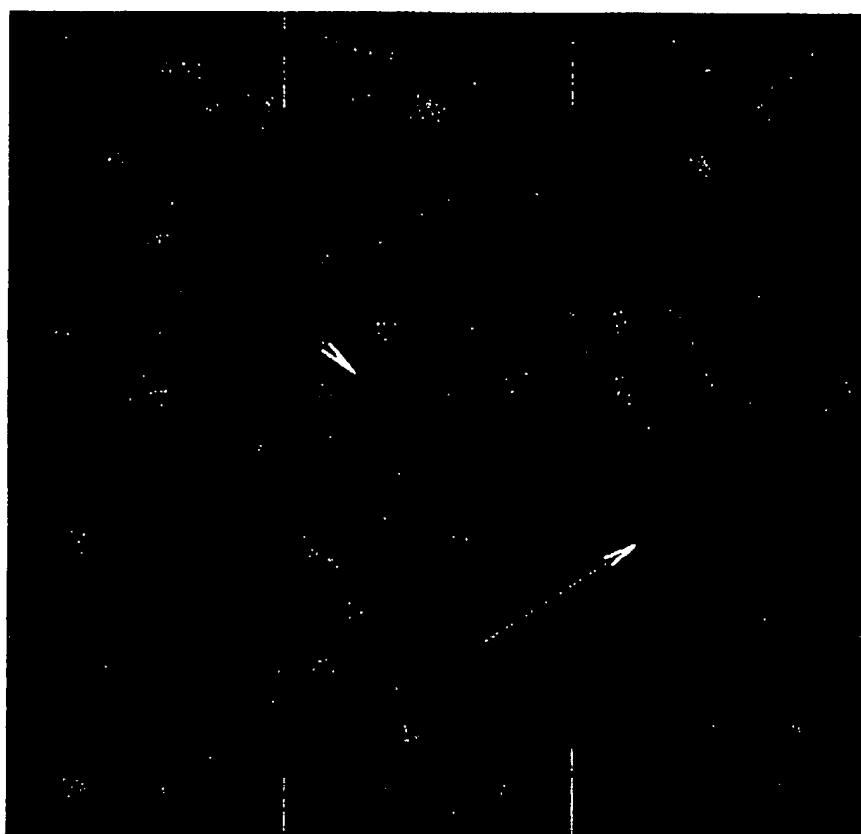


Figure 16

Programmable Array Reconfiguration and Segmentation

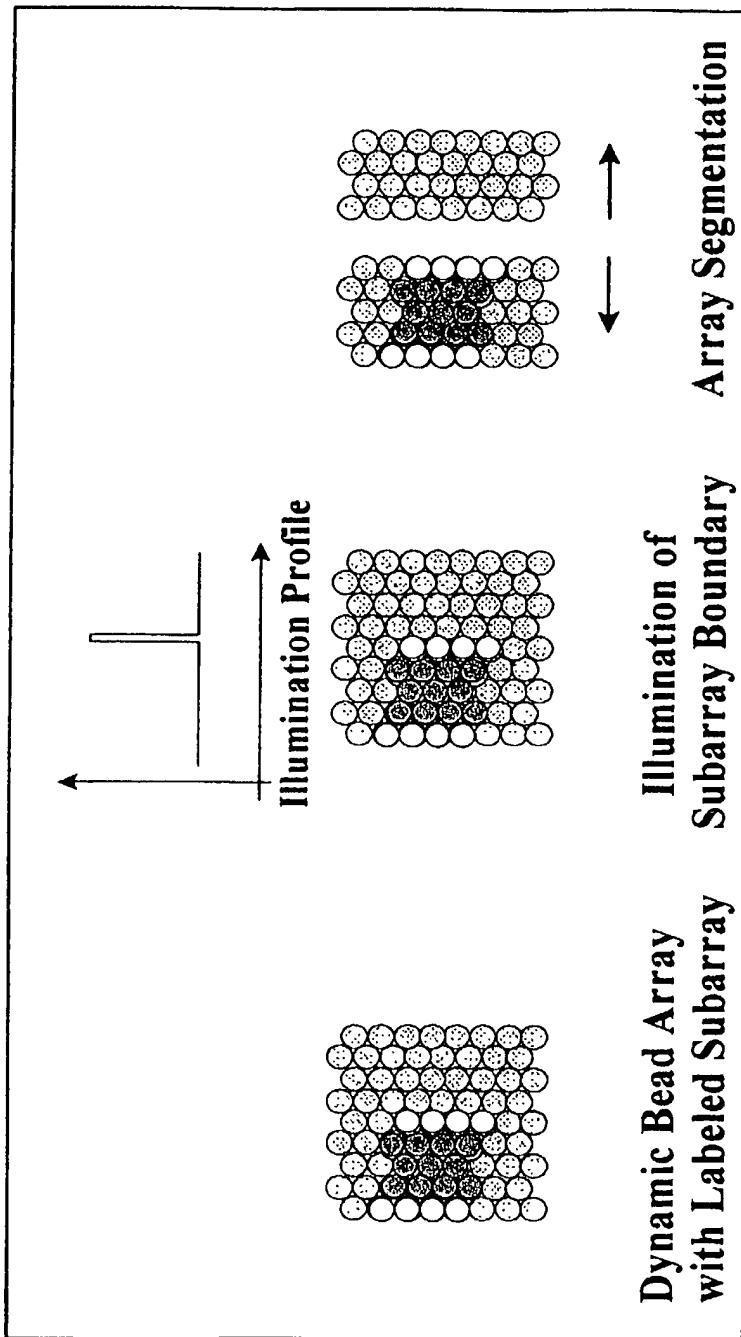


Figure 17

LCD PARSE

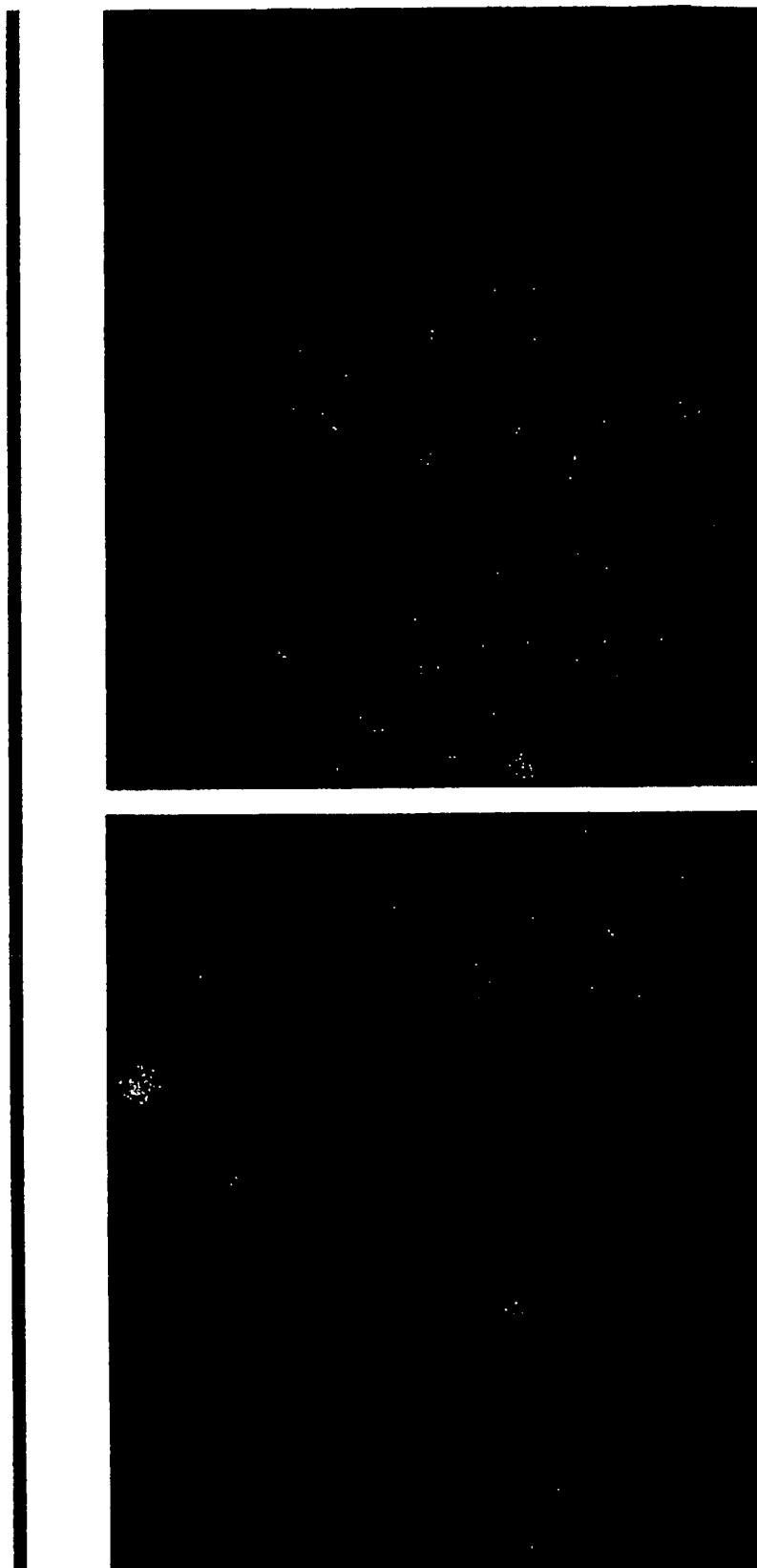


Figure 18a

Figure 18b

LCD PARSE

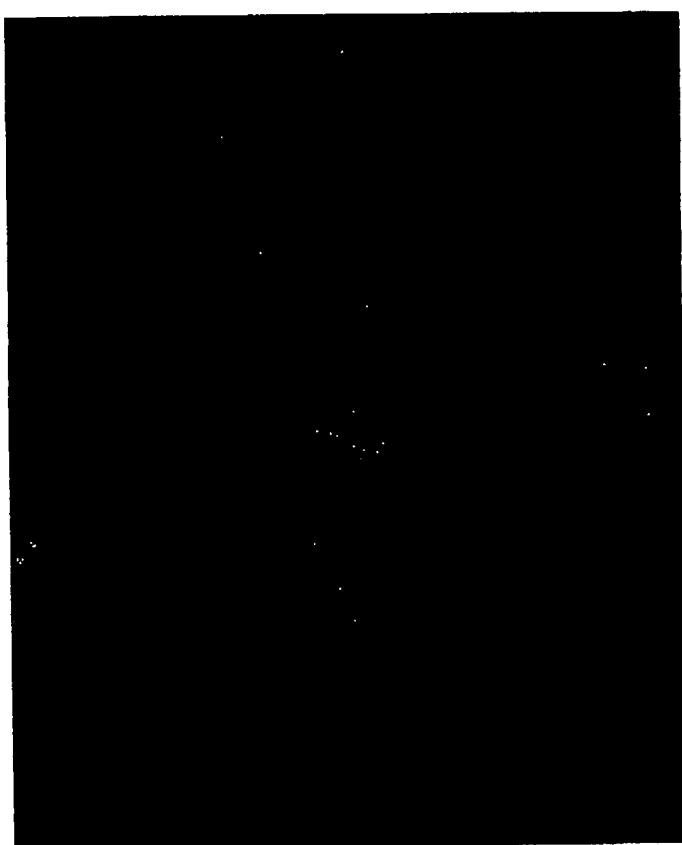
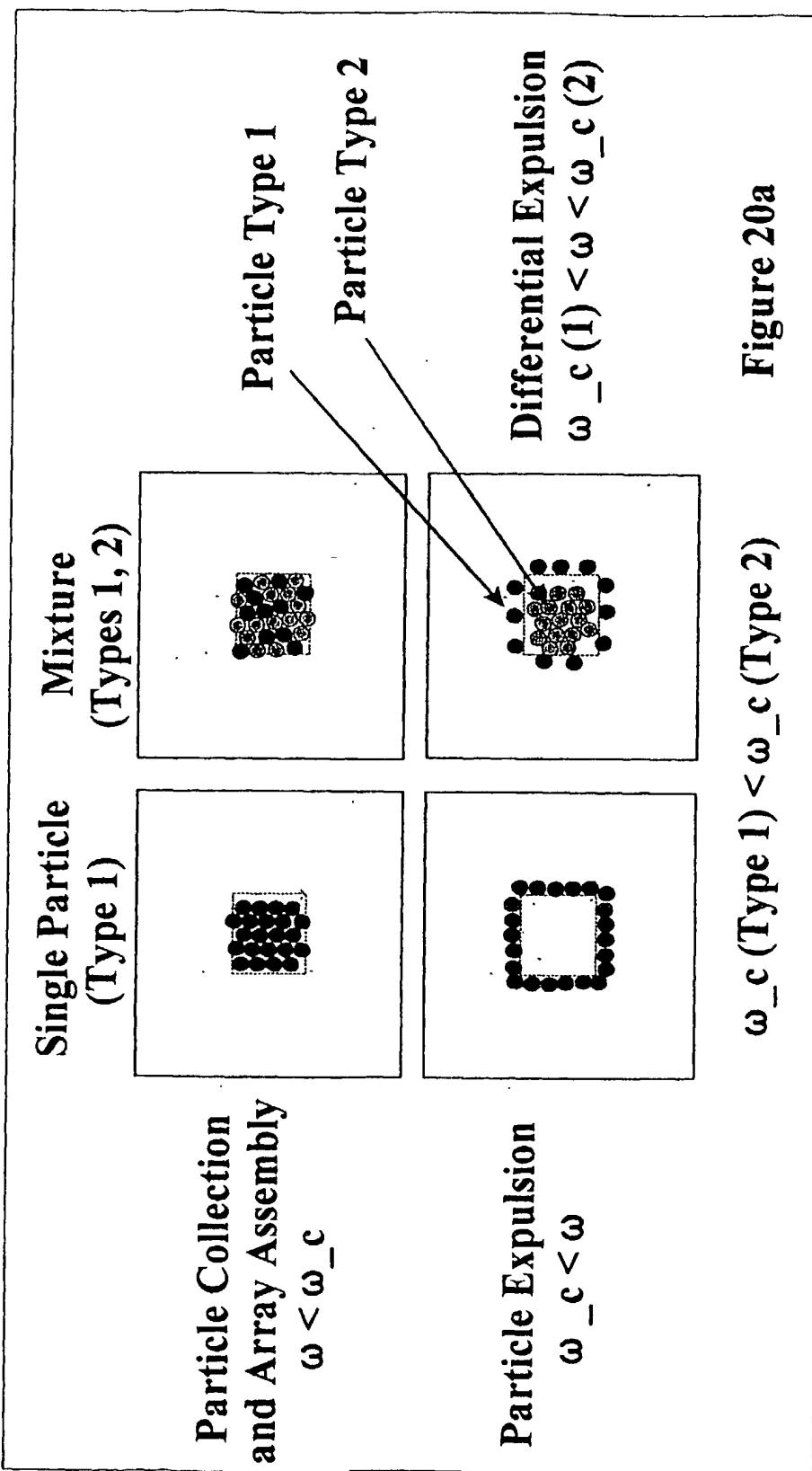


Figure 19

FRACTIONATION

Differential Frequency Dependence of Particle Expulsion
(NOTE: ω_c denotes a characteristic frequency)



ω_c (Type 1) $< \omega_c$ (Type 2)

Figure 20a

FRACTIONATION

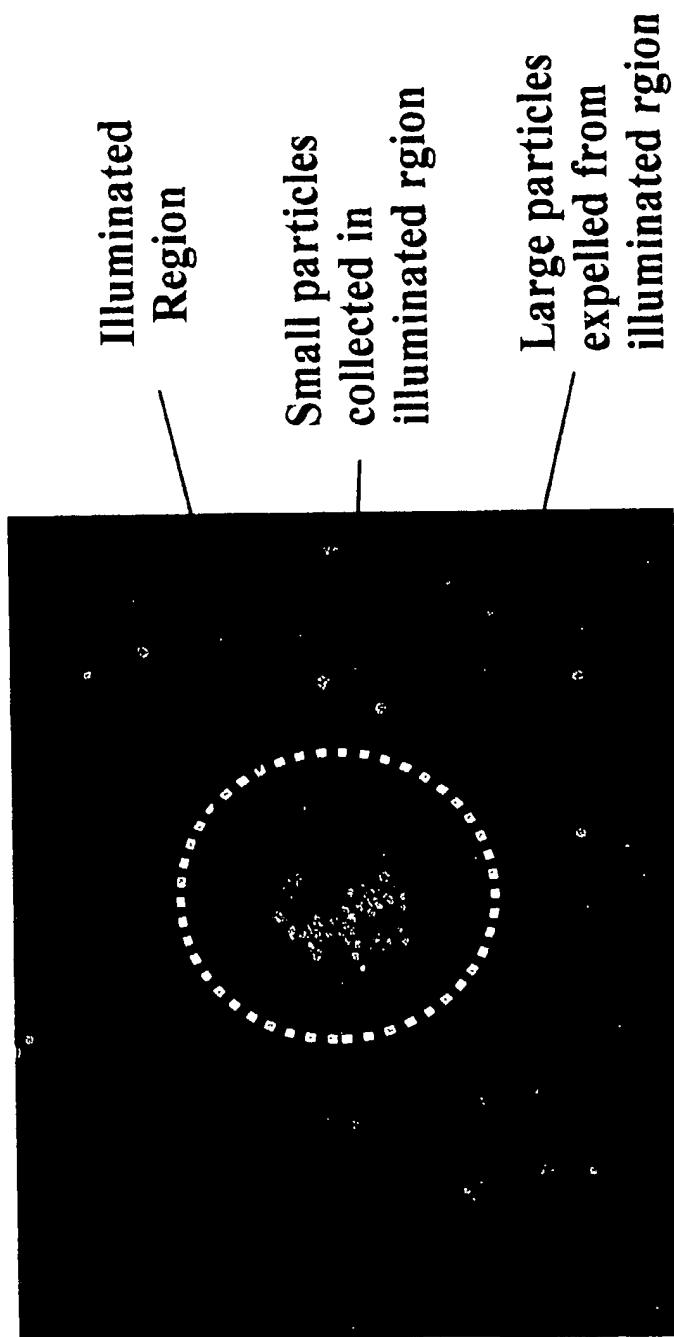


Figure 20b

LCD PARSE

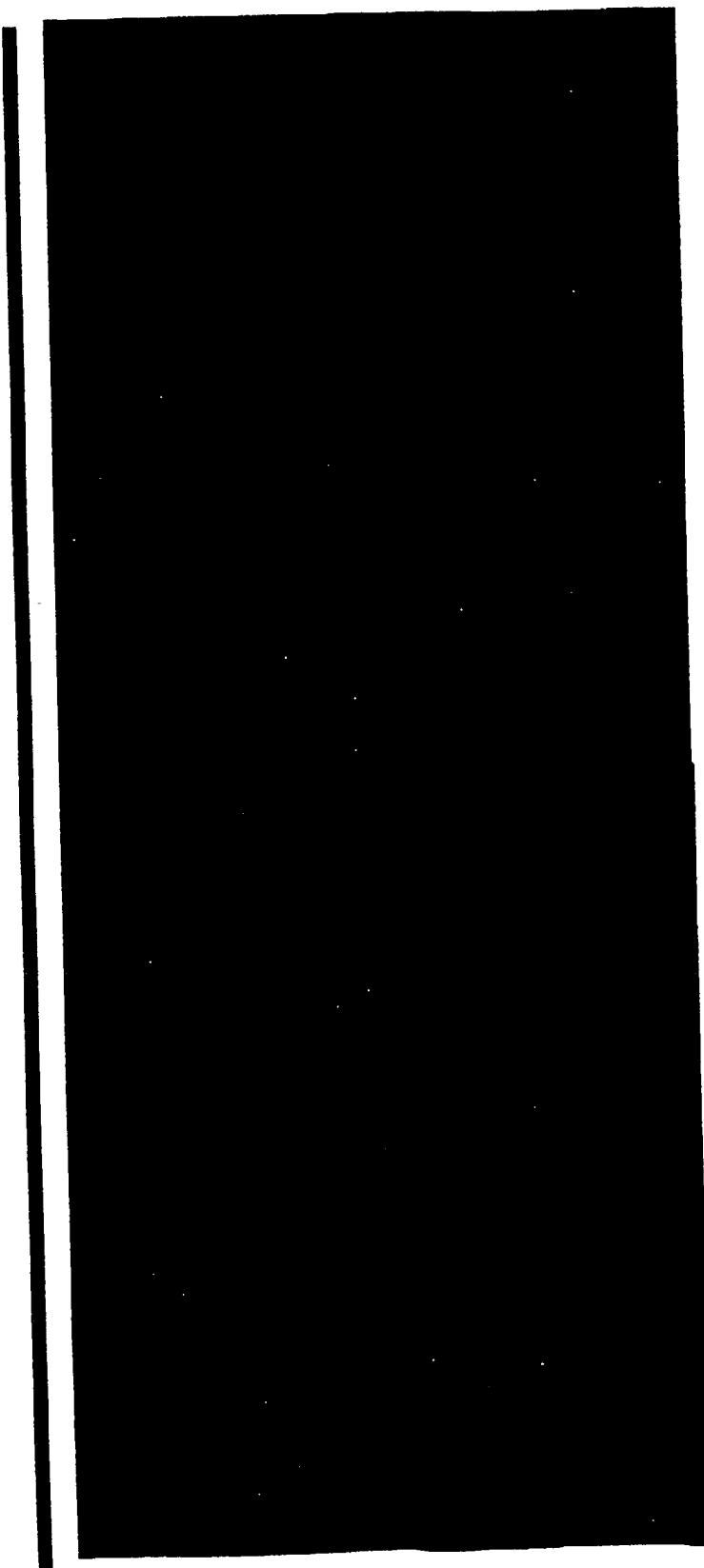


Figure 21a

Figure 21b

Figure 22a

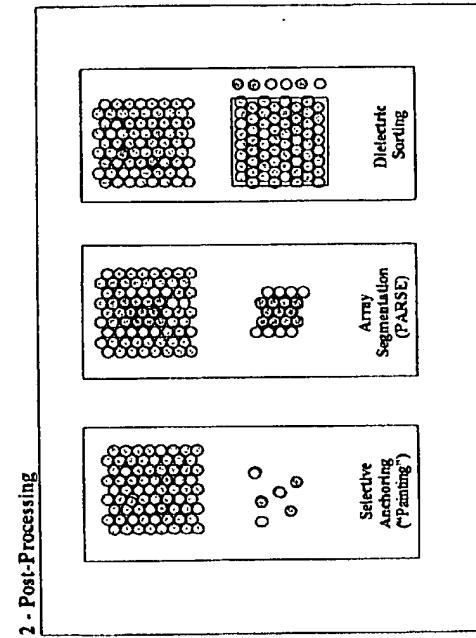
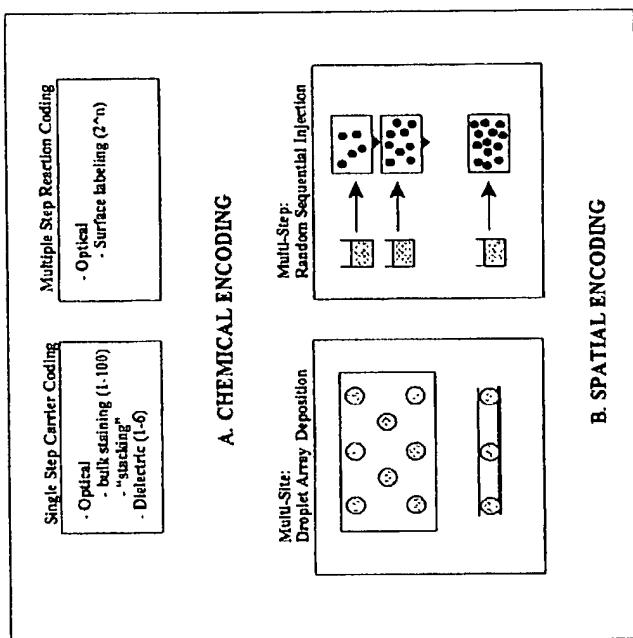


Figure 22b

RANDOM SEQUENTIAL INJECTION

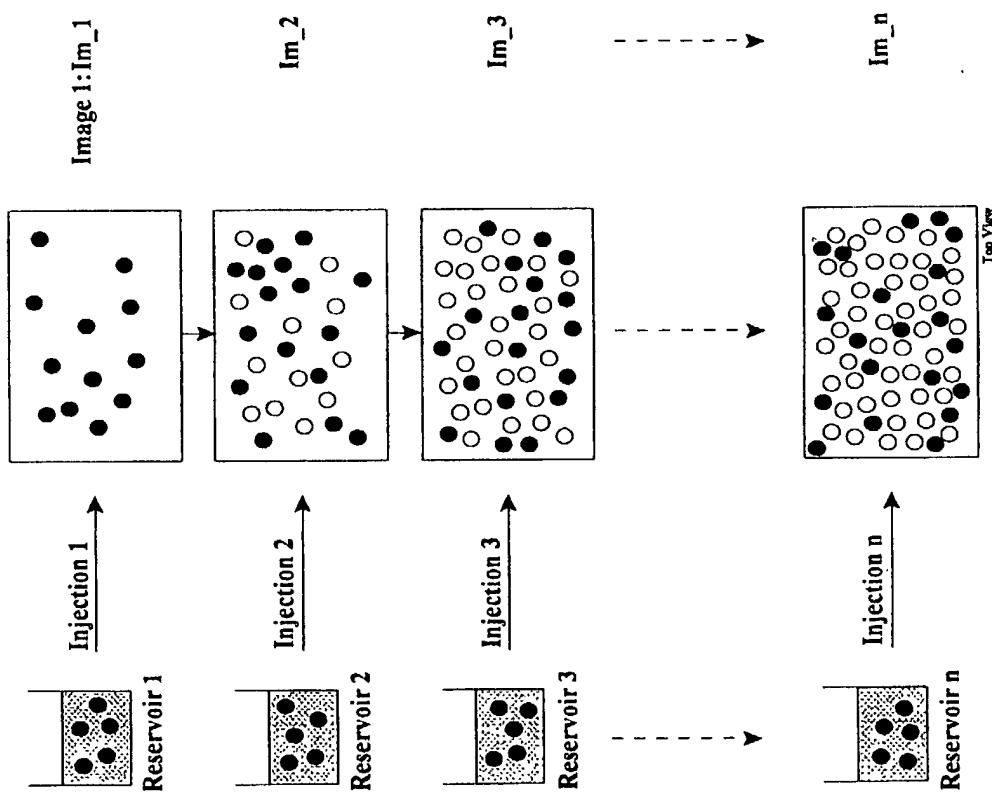


Figure 23

SEQUENTIAL INJECTION & LIGHT-CONTROLLED ARRAY PLACEMENT

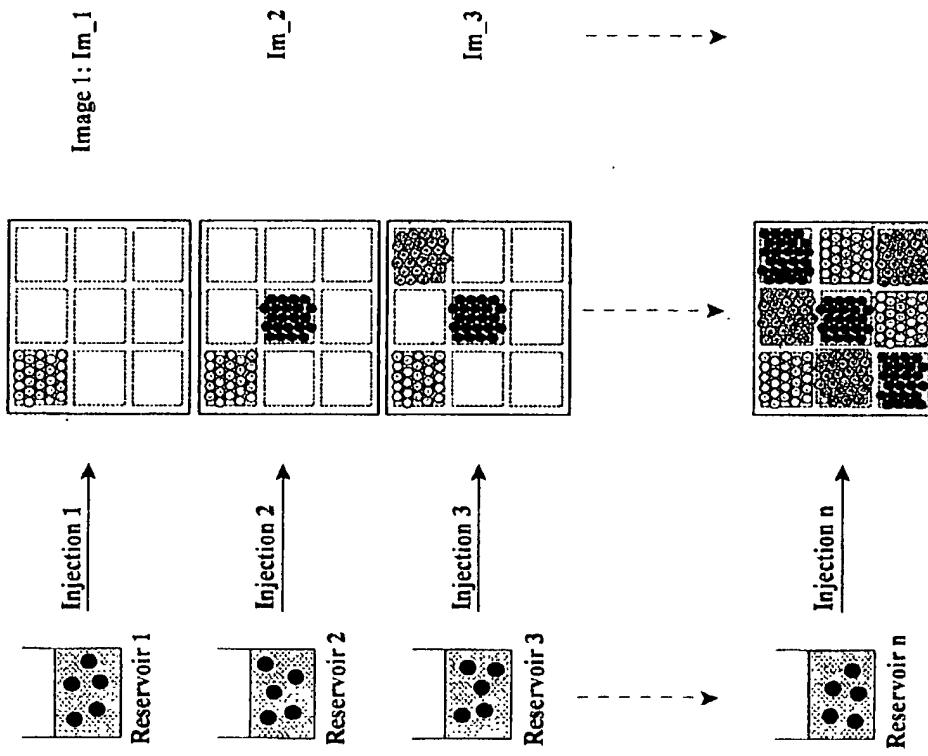


Figure 24

MACRO-TO-MICRO TRANSITION

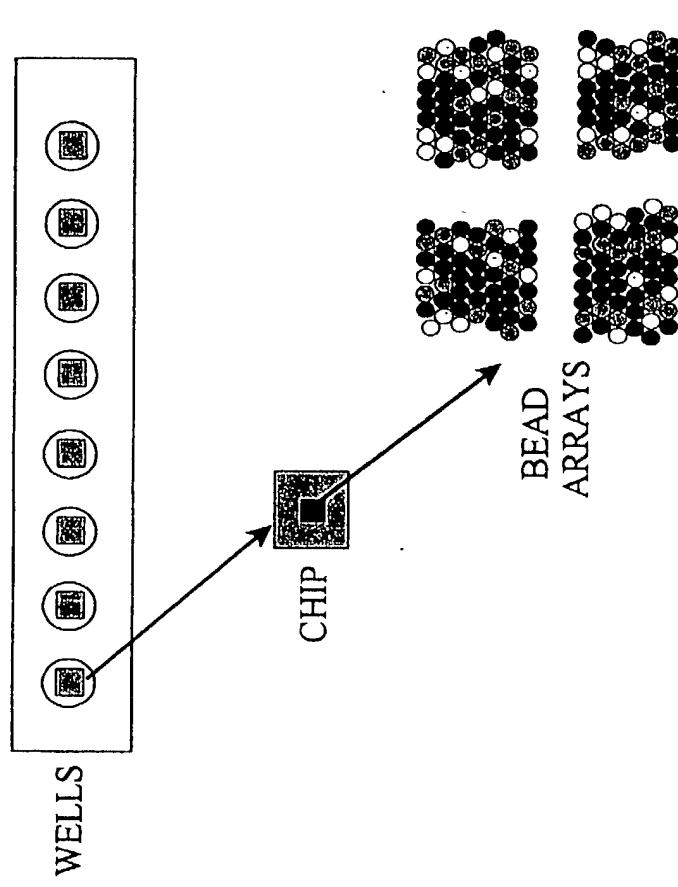
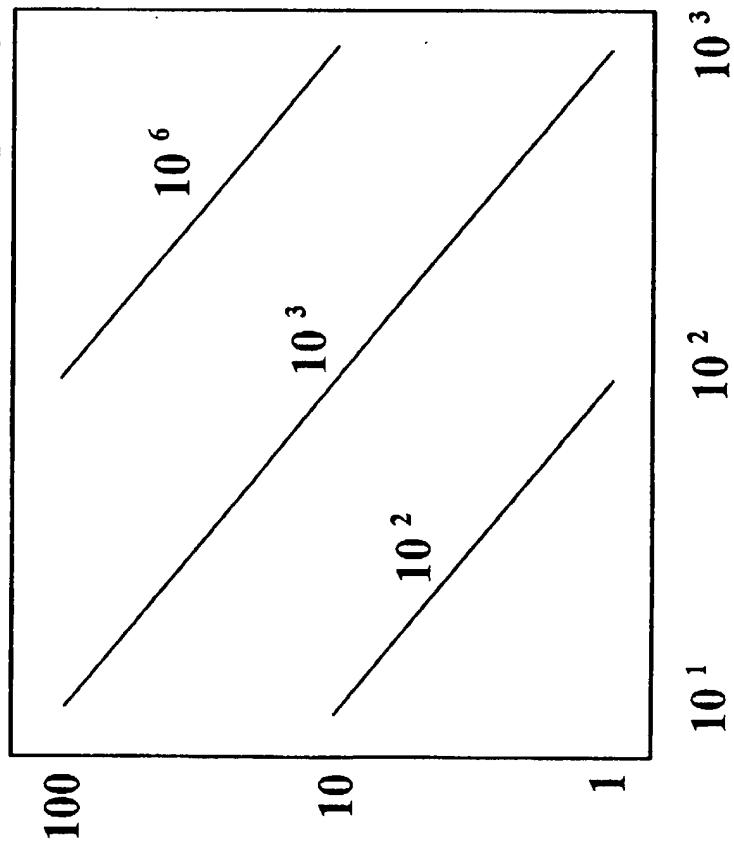


Figure 25a

ARRAY ENCODING

Lines of Constant Array Complexity



Spatial Encoding
Arrays/Chip

Chemical Encoding
Codes/Array

Figure 25b

ARRAY ENCODING

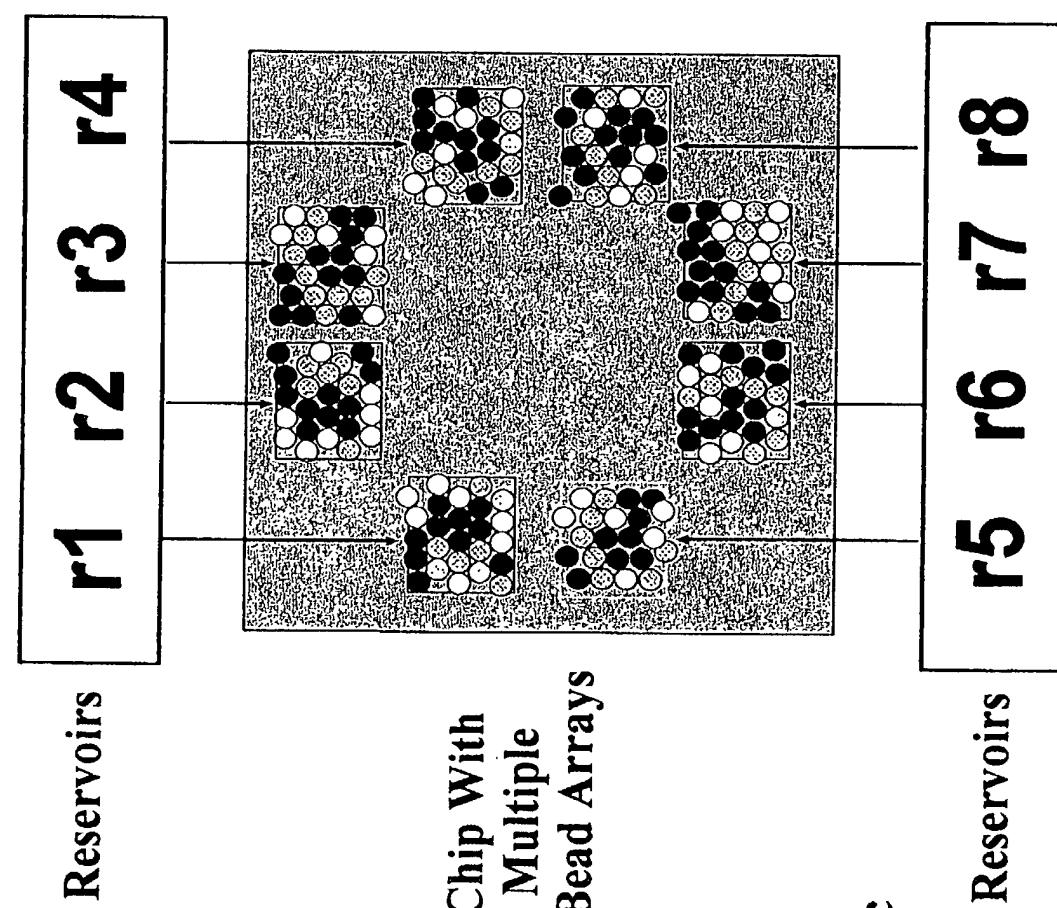


Figure 25c

SEQUENTIAL ASSEMBLY: "BANDING"

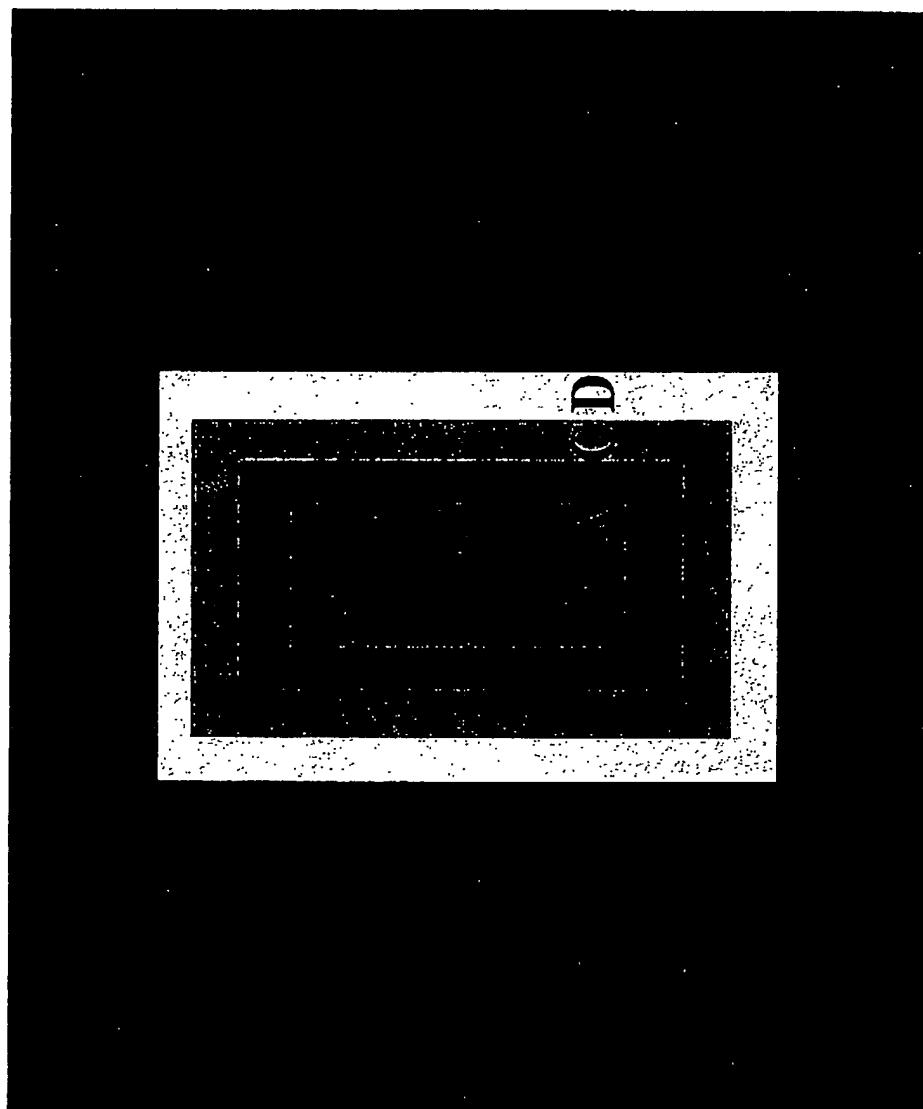


Figure 26a

SEQUENTIAL ASSEMBLY: "BANDING"

WO 01/20593

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33/36

Mixture of Two Particle Types

Brightfield Image

Darkfield Image

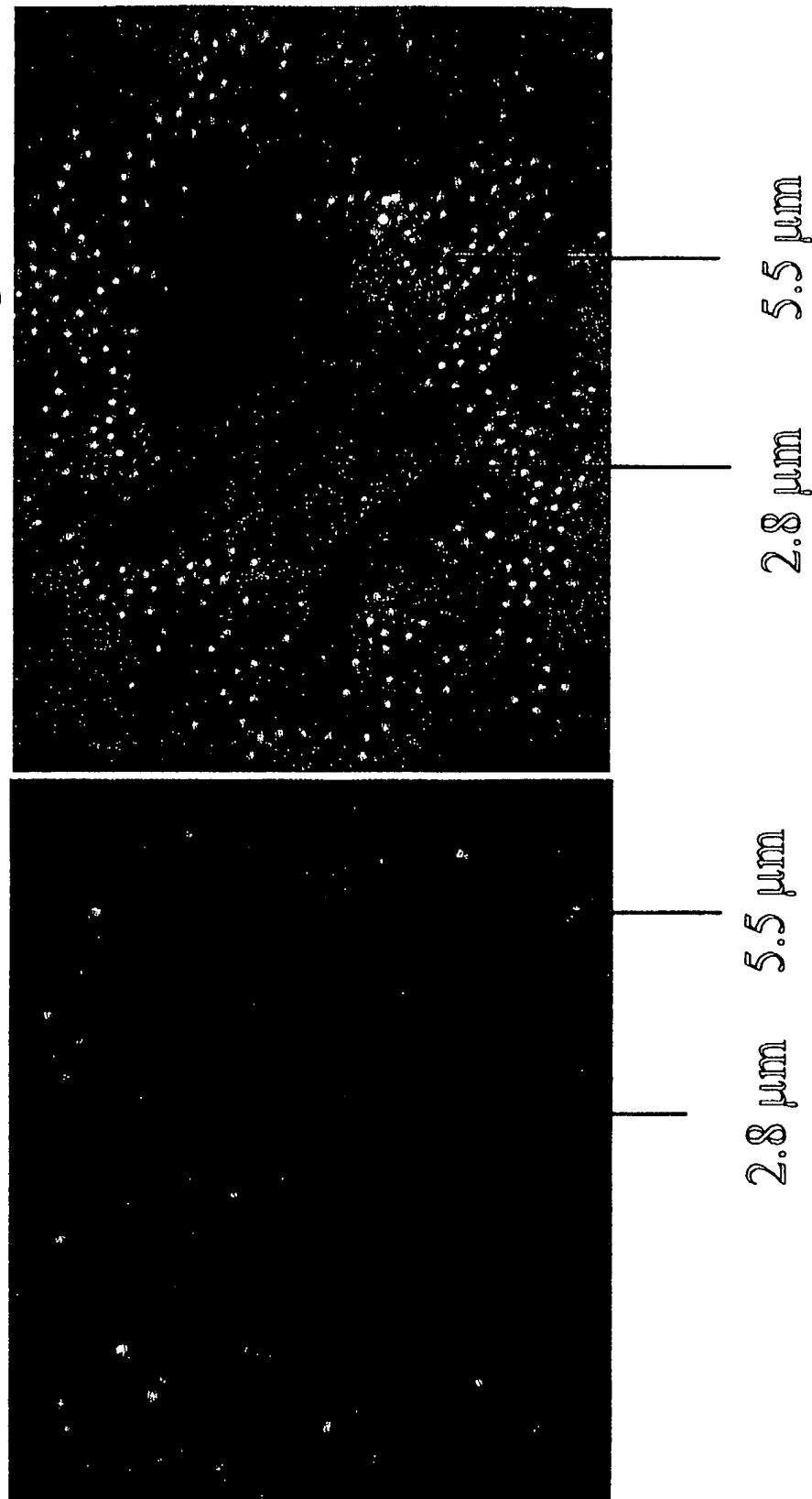


Figure 26b

LCD PARSE

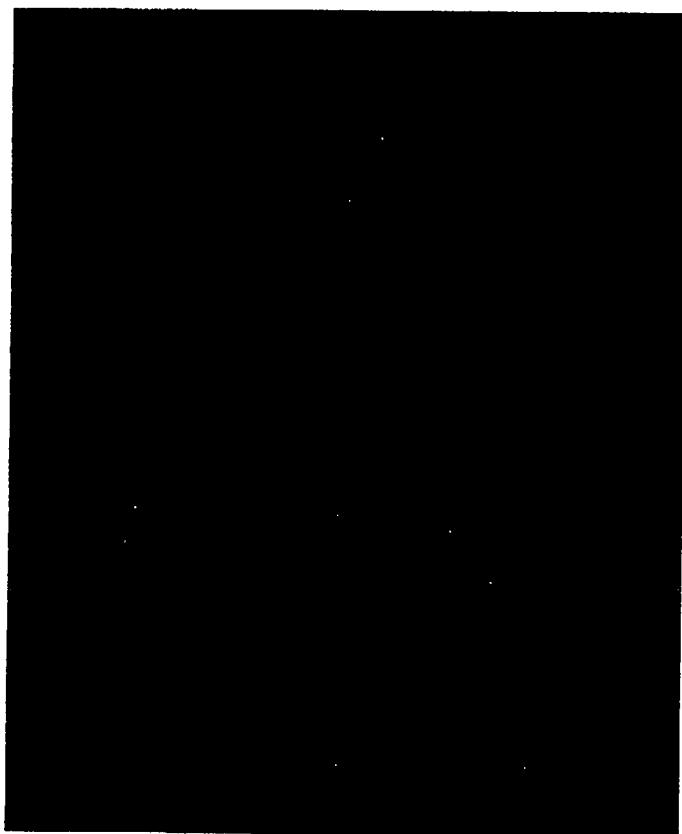


Figure 27

ARRAY OF RANDOM SUBARRAYS

A UNIQUE TWO-DIMENSIONAL BAR CODE

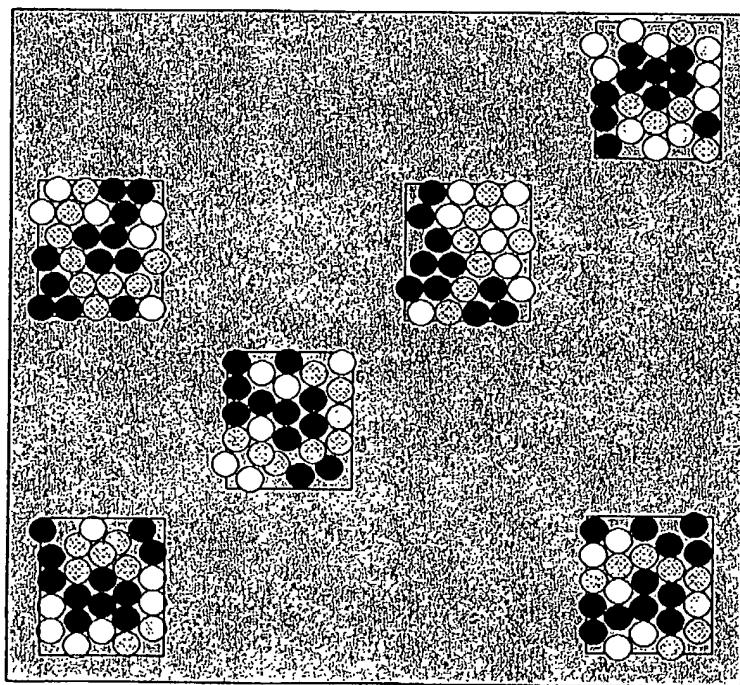


Figure 28

LIGHT-INDUCED FLUID FLOW

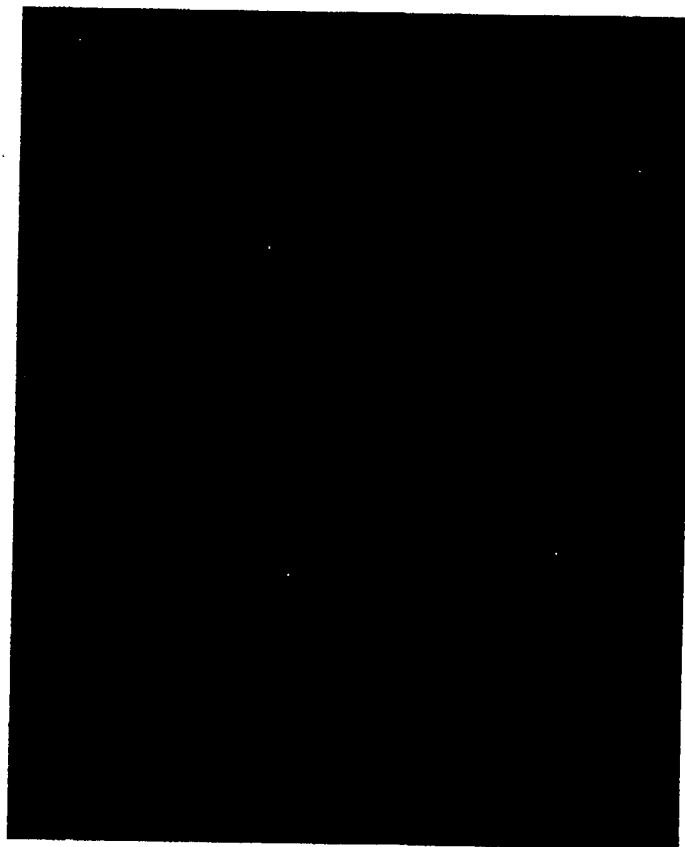


Figure 29